

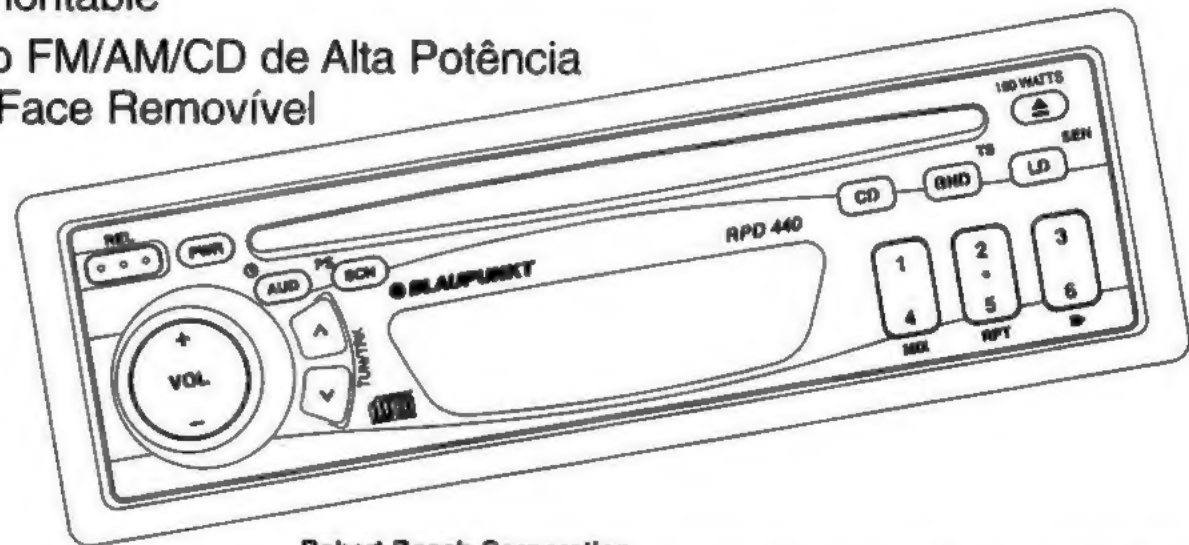
RPD 440

High-Power FM/AM/CD Receiver with Detachable Face

Autoradio AM/FM à Lecteur CD de Forte Puissance et à Face Amovible

Receptor FM/AM/Reproductor de CD de Alta Potencia y con Carátula Desmontable

Rádio FM/AM/CD de Alta Potência
com Face Removível



Robert Bosch Corporation
Sales Group —
Blaupunkt Division
2800 South 25th Avenue,
Broadview, Illinois 60153

BLAUPUNKT®
Bosch Group

FCC WARNING

The equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with instructions, may cause harmful interference with radio communications. However, there is no guarantee that radio interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to contact the dealer or an experienced Radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION

- The use of optical instruments with this product will increase eye hazard.
- Because the invisible laser beam in this compact disc player is harmful to the eyes, do not attempt to disassemble this cabinet. Refer servicing to qualified personnel only.

SAFETY CERTIFICATION

This Compact Disc Player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the US Department of Health and Human Services.

OWNER'S RECORD

The model and warranty numbers are located on the top of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Blaupunkt dealer regarding this product.

Warranty Number _____

FEATURES

Congratulations on your purchase of the Blaupunkt CD Receiver. Its Optimum Reception Control (ORC III) quartz FM/AM tuner Anti-Vibration & Shock CD Mechanism provide the ultimate in sound reproduction. Its high-power amplifier and 2-channel RCA preamp output provide tremendous system configuration flexibility.

- Tuner Features:
 - ORC III Tuner
 - 12 FM/AM Station Presets, Including Travelstones for all Presets
 - Automatic and Manual Tuning
 - Station Scan & Preset Scan

- CD Features:
 - Track Up/Down
 - Cue/Review
 - Track Repeat
 - Track Scan
 - Pause/Play
 - Track Mix
 - Track Number Indication
 - Elapsed Track Time Indication
 - DISC IN Indicator
 - 1 81/8 Times Oversampling Digital Filter
 - Silicone-Oil Dampened Anti-Vibration and Shock CD Mechanism

- Audio Features:
 - 35 Watts (Peak) x 4 Channel Integrated Amplifier
 - 2-Channel RCA Preamp Output
 - Dual-Level Fader
 - Volume/Balance/Fader Controls
 - Adjustable Turn-On Volume-Level
 - Loudness Control
 - Separate Bass and Treble Controls

- General Features:
 - Detachable Faceplate for Security
 - Switchable Clock/Function LCD Display
 - Ignition-Off Clock Recall
 - Green Illumination
 - Detachable Wire Harness
 - 178 x 50 x 155.5 mm (7 x 2 x 6 in.) DIN Chassis
 - Snap-In DIN Sleeve & Mounting Hardware

Your unit's detachable front faceplate makes the unit useless to would-be thieves.

PRECAUTIONS

- The use of optical instruments with this product will increase eye hazard.
- Because the laser beam in this compact disc player is harmful to the eyes, do not attempt to disassemble this cabinet. Refer servicing to qualified personnel only.
- If your vehicle was parked in direct sunlight resulting in a considerable rise in temperature inside the vehicle, allow the unit to cool off before operating your unit.
- If no power connection is supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a two-speaker system, set the fader control to the center position.
- You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty.
- If you have any questions or problems concerning your unit that are not covered in this manual, please contact your Blaupunkt dealer.

DETACHABLE FACE

Detaching & Attaching the Face:

The face of this unit can be detached and taken with you to prevent it from being stolen.

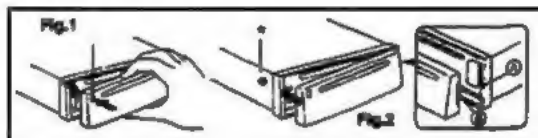
Detaching the Face:

Press the REL (Release) Button and detach the face by gently pulling it off as illustrated. (See Fig.1 below.)

Note: Do not pull it straight out from the chassis. Be sure not to drop the face when detaching it from the chassis.

Attaching the Face:

Apply the right hand side of the face to the chassis by sliding it into the right side of the chassis. Gently push the left side of the face against the front of the chassis until it snaps into place. (See Fig. 2.)



INSTALLATION

Recommendations

- Carefully choose the mounting location so that the unit won't interfere with normal driving.
- Avoid mounting locations where the unit would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- The illustration below shows a typical installation, however, you may need to adjust the installation, depending on the unit. If you have questions or need additional installation hardware, consult your Blaupunkt dealer.
- Make sure the unit is firmly anchored (preferably at both front and back) and does not vibrate.

Mounting Hardware



Mounting the Unit in a Japanese Car

You may have difficulty mounting this unit in some Japanese cars. In this case, consult your Blaupunkt dealer.

Removing the Unit

Use the Release Keys as shown below. Keep them in a safe place in case you need them in the future.

Fuse Replacement

When replacing the fuse, be sure to use one with the correct amperage, which will be stated on the fuse. Never use a fuse that has a stated amperage exceeding the one supplied for this unit, as this could cause malfunction and serious damage to the unit.

SPECIFICATIONS

Audio Power Specifications

Power Output and Total Harmonic Distortion: 13.5 watts per channel minimum continuous average output into 4 ohms, 4 channels driven, from 30-15,000 Hz with no more than 1% total harmonic distortion.

Other Specifications

Tuner

FM

Tuning Range: 87.5 - 107.9 MHz
 Intermediate Frequency: 87.5 - 108.0 MHz (RPO 435K only)
 FM Mono Sensitivity: 10.7 MHz
 Seek Sensitivity: 8 dB
 Selectivity: 22 dB
 Signal-to-Noise Ratio: 80 dB at 400 kHz
 Harmonic Distortion at 1 kHz: 70 dB (stereo), 75 dB (mono)
 Separation: 0.7% (stereo), 0.5% (mono)
 Frequency Response: 35 dB
 Frequency Response: 30-15,000 Hz \pm 0.75 dB

Design and specifications subject to change without notice.

AM

Tuning Range: 530 - 1,710 kHz
 531 - 1,602 kHz (RPO 435K only)
 Seek Sensitivity: 31 dBuV
 Intermediate Frequency: 450 kHz
 Signal-to-Noise Ratio: 50 dB

Audio

Speaker Impedance: 4 - 8 ohms
 Maximum Amp Power: 4 x 35 Watts (at 4 ohms)
 RMS Power: 4 x 17.5 Watts (at 4 ohms)
 Bass Control: \pm 10 dB @ 100 Hz
 Treble Control: \pm 10 dB @ 10 kHz
 Loudness: \pm 10 dB @ 100 Hz
 5 \pm 7 dB @ 8 kHz

Preamp Outputs:

Preamp Output Voltage: 1.5 volts maximum @ 100% Modulation with < 1% Total Harmonic Distortion

CD Player

Signal-to-Noise Ratio: 96 dB
 Dynamic Range: 90 dB
 Frequency Response: 5-20,000 Hz \pm 3 dB / 8-20,000 Hz \pm 1 dB
 Harmonic Distortion: .01%

General

Dimensions (w/o projecting parts/controls): 178 x 50 x 135.5 mm
 7 x 2 x 5 in.
 Mass: Approx. 1.4 kg (3.0 lb.)

Power Requirement

(neg. gnd.): 12 V DC car battery

Operating Temperature:

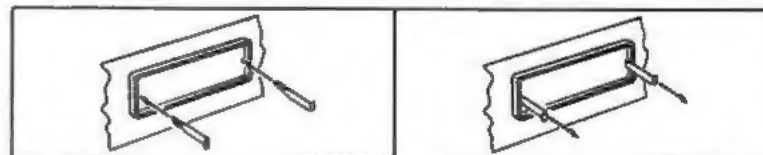
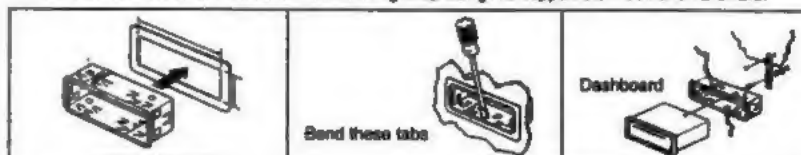
15°F to 120°F, -10°C to 50°C

Supplied Accessories:

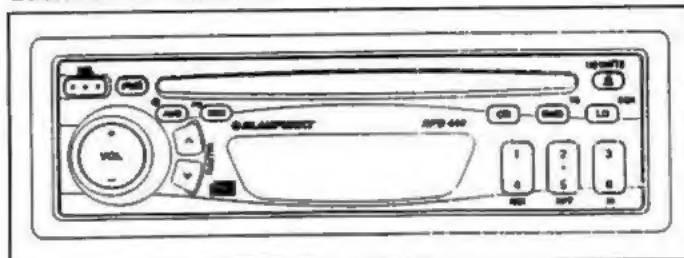
- Unit
- Faceplate
- DIN Sleeve
- Mounting Hardware
- Owner's Manual in English, French, Spanish and Portuguese

Mounting The Unit in Most Dashboards

- 1 Install the Sleeve (1) in the dashboard.
- 2 Select and bend the appropriate tabs to hold the sleeve firmly in place.
- 3 A. Attach the Mounting Strap (2) to the underside of the dashboard, using screw.
 B. Attach the back of the unit to the mounting strap using the support stem bolt and hardware.



LOCATION OF CONTROLS



INSTRUCTIONS — GENERAL OPERATION

Press means momentary press of less than 1/2 seconds.

Ignition-Off Clock Recall - You can check the time when the vehicle ignition is off by simply pressing the AUD Button. The time stays displayed for five seconds.

Turning Unit On - Vehicle ignition must be on. To turn unit on, press PWR Button or insert a disc.

Turning Unit Off - Press the PWR Button to turn the unit off.

Volume - Press the + and - Buttons to quickly increase or decrease the volume to the desired level. The volume level is indicated in the Display Window. To make a fine adjustments to the volume level, press the other volume button before the volume level disappears from the display. You can then gradually adjust the volume in either direction, making precise adjustment easy.

Adjustable Turn-On Volume - First adjust the volume to the (maximum) volume level desired when the unit is turned on. Press and hold the PWR Button for more than two seconds. The unit turns off and the turn-on volume level is memorized. When the unit is turned on, the volume will be at the memorized level, even if the unit was turned off while the volume was at a higher level. However, if the volume is turned off when the volume level is lower than the stored Turn-On volume level, the volume will be at the lower level when the unit is turned back on.

Setting the Clock - Press the AUD as many times as needed to access the clock with the hour blinking. Adjust the hour using the + and/or - button. Press the AUD button once more to adjust the minutes also using the + and/or - button. Press AUD once more to return to the normal mode.

Changing the Information Displayed

- To change the display priority, press the AUD Button for two seconds. The display priority changes. In the radio mode, the display priority choices are clock and radio frequency. In the CD mode, the display priority choices are clock, track number, and elapsed track time.

- To change the display temporarily, press and release the AUD Button one or two times to access the desired information.* After five seconds, the display changes back to the priority information.

Bass and Treble

Press AUD Button as needed to select the Bass once more to reach Treble mode. The level is indicated in the Display Window. Press the + Button or - Button to increase or decrease the level.*

Balance

Press AUD Button as needed to select the Balance mode. The balance is indicated in the Display Window. Press the + button to shift sound to the left. Press - button to shift sound to right.

Fader

Press AUD Button as many times as needed to select the Fader mode. The level of output for front and back speakers is indicated in the Display Window. Press the + button to shift sound to the front. Press - button to shift sound to rear.

- Five seconds after you complete your adjustments, the unit will automatically return to the volume mode and the display will revert back to the priority display, clock or function. You can also press and release AUD as needed to return to the priority display.

AUD Button Summary

- Pressing and releasing the AUD Button accesses these modes in this succession:
- Temporary Display Change(s), Bass, Treble, Balance, Fader, Hours, Minutes, Normal.
- Pressing the AUD Button for two seconds changes the display priority.
- While in any AUD mode (except for hour and minute adjust), if no button is pressed for five seconds, the unit returns to the volume adjustment mode and priority display.

Loudness

Press LD Button to activate or deactivate loudness.

RADIO OPERATION

Automatic Stereo/Mono Reception Adjustment

When an FM stereo program with a signal strength of at least 50 dB μ is tuned in, the stereo indicator ("CD") appears in the Display Window. If the FM stereo program is weak and noisy, the unit automatically blends the signals, eliminating the noise and gradually converts to the monaural or "mono" mode. The stereo symbol will disappear from the Display.

Selecting the Band

Press the BND button as many times as necessary to select the desired band.

Automatic Seek Tuning

Select the desired band. Press and release the A or V button to seek the next receivable station. To stop seeking and return to the previously tuned frequency, press the other of the A or V buttons.

Manual Tuning

Select the desired band. To begin manual tuning, press and hold the e or w button for 0.5 seconds. The band indication blinks while the manual tuning mode is active. Four seconds after you complete your adjustments, the Tuning Controls revert to Seek Tuning.

Station Scan

Press the SCN Button to activate station scan. Scanned frequencies will blink. To stop scan, press the same button.

Preset Scan

Press the SCN button for more than 2 seconds to activate preset scan. The unit scans receivable stations for 10 seconds then returns to the starting frequency. To end preset scan and listen to a desired preset station, press SCN again.

Travelstore

This feature allows you to automatically store 6 receivable FM and 6 receivable AM stations, which is especially handy when you travel to a different reception area. Select the desired band. Then press BND/TS button for 2 seconds. Beginning with the last station received the unit automatically scans the band for the six stations with strong signals. Once completed, the unit returns to the previously-tuned frequency.

Selecting Preset Stations

Select the desired band. Press the desired preset button. Then the frequency and the preset number will appear.

Manually Storing Individual Preset Stations

1. Select the desired band using the BND button.
2. Tune in the desired frequency using seek or manual tuning.
3. Press and hold down the desired preset button for 2 seconds.
4. The frequency blinks and the audio mutes to one second to confirm storage.

COMPACT DISC OPERATION

Playing A Disc - Check Display to make sure that "DISC IN" indicator is not lit. Insert a disc into the Disc Slot with the label surface facing up. "LOAD" and "DISC IN" appear in the display. The track number and "DISC IN" indicator will appear in the Display. Play starts at the beginning of the first selection (TRACK).

Do not insert a 3-inch CD.

When a CD is already in the unit, simply press the CD Button to switch from radio to CD playback.

Ejecting A Disc - To eject a disc, press the eject button. Once ejected, the disc should be put in the case.

Track Up/Down - Press the A Button or V Button to locate the desired track. Track number appears in the display.

Cue and Review - Press and hold the A Button or V Button to rapidly advance forward or backward to the desired position of the track during playback.

Repeat Play - Press the RPT (Repeat Play) Button to repeat the same selection. The "RPT" indicator is displayed in the Display. To cancel, press this button again.

Mix Play - Press the MIX Button to play the tracks in random order. The indicator "MIX" will appear in the Display. To cancel, press this button again.

CD Scan - Press SCN Button to start CD Track Scan, start of scan mode is indicated by the blinking of the track number. The unit stops at each track for 10 seconds. Press again to end the Scan mode.

Pause - Press the Pause Button (II>) during playback. Play will stop. Press again to resume play.

TROUBLESHOOTING GUIDE

The following check will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, refer back to the connection and operating procedures.

General

Trouble	Cause/Solution
No sound.	<ul style="list-style-type: none"> Adjust the volume with the + button. Set the fader control to the center position with a 2-speaker system.
Indications do not appear on the display window.	<ul style="list-style-type: none"> Remove the front panel and clean the connectors with cotton swab dipped in isopropyl alcohol (90% or higher).

Radio reception

Trouble	Cause/Solution
Preset stations are not receivable.	<ul style="list-style-type: none"> The broadcast is too weak.
Automatic tuning is not possible.	<ul style="list-style-type: none"> The broadcast is too weak. —> Use manual tuning.
Travelers feature does not complete storing of stx stations.	<ul style="list-style-type: none"> Not enough broadcast frequencies are receivable.

Also make sure that antenna is connected, extended and dry inside.

If the above mentioned solutions do not help to improve the situation, consult your nearest Blaupunkt dealer or in the United States call 1-800-265-2528 for technical assistance, parts and service. Call 1-800-950-2528 for dealer referral or to request product brochure.

CD operation

In the unlikely event that the CD doesn't play, first eject the disc, make sure it is clean, undamaged and that the print side is facing up; then load it again. If problem continues, try to eliminate the problem by turning the unit off and on, or by pressing the reset button located on the lower mid-front of the unit (behind the faceplate) with a straight paper clip or something similar.

Trouble	Cause/Solution
CD play does not start.	<ul style="list-style-type: none"> Dusty or defective disc. The ambient temperature is more than 50°C (120°F).
The disc cannot be loaded or is automatically ejected.	<ul style="list-style-type: none"> The disc is inserted with the labeled side downwards.
The sound skips due to vibration.	<ul style="list-style-type: none"> The unit is installed at an angle of more than 20°. The installation is not stable. Dusty or defective disc.

Error Displays-

Display	Cause	Solution
E-01	Data error. Disc is dirty, scratched, up-side-down or CD-ROM.	Eject and insert clean, undamaged disc properly (print side up).
E-02	Focus error, possibly due to extreme temperature.	Try ejecting and reinserting under normal temperature conditions.
E-03	Data and focus errors.	Under normal temperature conditions, eject and insert clean, undamaged disc properly.
E-04	Mechanical error.	Eject and reinsert.